

What is claimed is:

[Claim 1] Multiparticular galenic forms to be utilised orally and intended for colonic delivery of active ingredients selected from the group comprising enzymes capable of inactivating the macrolids and related substances and the enzymes capable of inactivating quinolones.

[Claim 2] The multiparticular galenic forms as claimed in Claim 1, characterised in that the enzyme capable of inactivating the macrolids is erythromycin esterase.

[Claim 3] The multiparticular galenic forms characterised in that they are suitable to be utilised orally and intended for colonic delivery of active ingredients comprising pectin beads present in the form of a cationic salt including the active ingredient, said pectin being reticulated by a cationic polymer.

[Claim 4] The galenic form as claimed in Claim 3, characterised in that the cationic polymer is selected from the group constituted by polyethylenimine, polylysine, chitosan and their derivatives.

[Claim 5] The galenic forms as claimed in any one of Claims 3 to 4, characterised in that the cationic polymer has a molecular weight of between 10,000 and 100,000 Daltons, preferably between 20,000 and 50,000 Daltons.

[Claim 6] The galenic forms as claimed in any one of Claims 3 to 5, characterised in that the pectin salt is a calcium pectinate prepared from amidated or non-amidated pectin.

[Claim 7] The galenic forms as claimed in any one of Claims 3 to 6, characterised in that they are prepared from a solution of pectin at 4-10% (m/v), advantageously from 4 to 7% (m/v), a solution of calcium chloride at 2-10% (m/v) and a solution of polyethylenimine at 0.5-2% (m/v).

[Claim 8] The galenic forms as claimed in any one of Claims 3 to 7, characterised in that the solution of pectin is at 6%, the solution of calcium chloride at 6% and the solution of polyethylenimine at 1% or 0.6%.

[Claim 9] The galenic forms as claimed in any one of Claims 3 to 8, characterised in that the active ingredient is selected from antibiotics, anti-inflammatory compounds, anti-histamines, anti-cholinergics, antivirals, antimitotics, peptides, proteins, genes, anti-sense oligonucleotides, diagnostic agents and/or immunosuppressive agents or bacteria, preferably from antitumoral agents and enzymes capable of inactivating the antibiotics in the colon.

[Claim 10] The galenic forms as claimed in Claim 9, characterised in that the enzymes are selected from the group made up by β -lactamases, enzymes capable of inactivating macrolids and related substances, preferably erythromycin esterase and enzymes capable of inactivating quinolones.

[Claim 11] A process for preparation of a galenic form as claimed in any one of Claims 3 to 8, characterised in that an aqueous solution of pectin containing the active ingredient is added to an aqueous solution of a divalent cationic salt, to provide pectin beads in the form of a cationic salt including the active ingredient, and in that said beads are reticulated by introduction to an aqueous solution of the cationic polymer.